

Precursor Study - *past*

- Precursors that have been tested
 - Solids, Polymer, Ascorbic acid, humid acids, Urea, and Hydantoin
- Experimental conditions
 - High dosage of target organics, at least 1 mM
 - In DI matrix, chlorine, nitrite/nitrate, chloramine were applied
 - In post ammonia Secondary, chlorine was applied
 - Dechlorinating agents and pH adjustment were applied
- Inconclusive at this time

6/25/2019

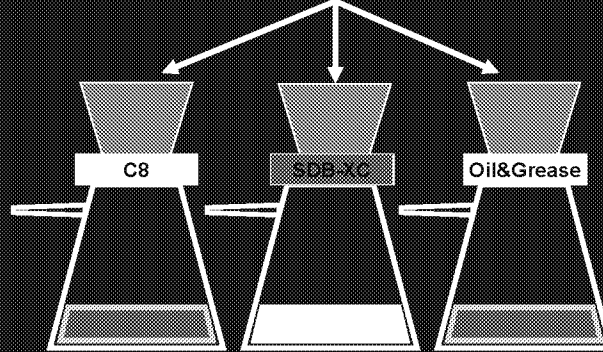
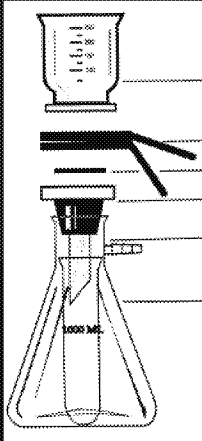
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Extractable Precursors

Final Effluent
Sample

→ Immediate analysis
Arsenite at ambient pH
Arsenite at pH=12

Arsenite Dechlorination



- Adjust to pH=12
- analyze immediately
- reanalyze 24 hrs later

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Problems

- Effluent concentrations exceed limits
- Effluent conc. exceeds influents
 - Effluent 5 – 20 µg/L
 - Influent < 5 µg/L
- Discharge limits approach MDLs

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